

Special Issue

Thermal Management in Energy Systems

Message from the Guest Editor

Thermal management in energy systems provides performance enhancement and reliable operating conditions during the lifespan of energy-related products, for which many applications are possible in diverse systems, including photovoltaic panels, hydrogen storage, lithium-ion battery systems, thermal energy storage, and micro-electro-mechanical systems (MEMs) in addition to numerous convective heat transfer applications. Active, passive, and hybrid methods have been considered for thermal management in renewable and nonrenewable energy systems. In one of the available methods, nano-sized particles are used in heat transfer fluids, and this nanofluid technology has been successfully implemented for thermal management of diverse energy systems, including solar power, thermoelectric power generation, refrigeration, jet impingement heat transfer, and electronic cooling applications.

The present Special Issue will focus on the application of various thermal management methods in diverse energy systems and present the most recent methods and advanced simulation tools. It is envisaged that this Special Issue will serve as an invaluable reference for researchers and engineers.

Guest Editor

Prof. Dr. Fatih Selimefendigil

Department of Mechanical Engineering, Manisa Celal Bayar University, Manisa 45140, Turkey

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Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario
Institute of Technology, Oshawa, ON L1G 0C5, Canada

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